

Direct Amidation of Carboxylic Acids

SOV/79-29-6-67/72

phosphinic acids are listed. There are 1 table and 11 references, 2 of which are Soviet.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR
(Institute of Organic Chemistry of the Academy of Sciences
of the Ukrainian SSR)

SUBMITTED: May 6, 1958

Card 3/3

KIRSANOV, A.V.; ZHMUROVA, I.N.

Reaction of phosphorus pentichloride with phosphoric acid amides.
Zhur.ob.khim. 28 no.9:2478-2484 S '58. (MIRA 11:11)

1. Institut organicheskoy khimii AN USSR.
(Phosphorus chlorides) (Amides)

ZHMUROVA, I.N.

Tautomerism of salts of aminoazo compounds. Zhur.ob.khim. 27
no.10:2704-2710 0 '57. (MIRA 11:4)

1. Institut organicheskoy khimii Akademii nauk USSR.
(Aantomerism) (Azo compounds)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064830012-5

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Zhmurova, I.N.

KIRSANOV, A.V.; LEVCHENKO, Ye.S.; ZHMUROVA, I.N.

Diarylamidation of carboxylic acids. Ukr.khim.zhur. 22
no.4:498-503 '56. (MIRA 10:10)

1. Institut organicheskoy khimii AN USSR.
(Amidination) (Acids)

ZHMUROVA, I.N.

Esters on N-(alkylthionocarbamato) phosphoric and N-(alkylthionocarbamato) thiophosphoric acids. Ukr. khim. zhur. 22 no. 5:627-629 (MLRA 10:6)
156.

1. Institut organicheskoy khimii Akademii nauk USSR.
(Phosphoric acid)

ZHMUROVA, Z.I.; KHAIMOV-MAL'KOV, V.Ya.; AKULENOK, Ye.M.; BAGDASAROV, Kh.S.

Distribution of an isomorphic impurity in crystals of
 $\text{Zn}(\text{NH}_4)_2 (\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$ and K_2SO_4 during crystallization.

Kristallografiia 8 no.6:936-937 N-D'63.

(MIRA 17:2)

1. Institut kristallografii AN SSSR.

S/070/62/007/003/015/026
E132/E460

AUTHORS: Khaimov-Mal'kov, V.Ya., Zhmurova, Z.I.,
Bagdasarov, Kh.S., Akulenok, Ye.M.

TITLE: On the question of the sectorial growth of crystals

PERIODICAL: Kristallografiya, v.7, no.3, 1962, 437-441

TEXT: Certain regularities in the production of macro-nonuniformities in crystals during their growth from solution are discussed. The connection between the forms of the growth pyramids and the conditions of crystallization are examined. Using the example of alums it is shown that the development of a sectorial structure is connected with the trapping by the growing crystal of mechanical impurities and with the inclusion of structural impurities. The following signs can be used to diagnose the kinds of defects in crystals. The relative rate of growth of a face which is being spoilt is, in the case of structural impurities, significantly decreased (blocking) but in the case of mechanical impurities it is significantly increased. In the first case, if the symmetry of the crystal allows it, the defective face forms the basic shape of the crystal and in

Card 1/2

On the question of the sectorial ...

S/070/62/007/003/015/026
E132/E460

the second case it is tapered out. The degree of spoiling of the growth pyramids (degree of trapping of impurities) decreases with increasing supersaturation for structural impurities but decreases for mechanical impurities. For high concentrations of structural impurities the surface of an affected face has a specific character of peeling flakes. (Mechanical impurities are insoluble particles or colloidal bodies in suspension, structural impurities are ions or dyes in solution which enter the crystal as isomorphous replacements.) There are 8 figures. ✓

ASSOCIATION: Institut kristallografii AN SSSR
(Institute of Crystallography AS USSR)

SUBMITTED: June 28, 1961

Card 2/2

ZHUK, YA., PAVLOVSKIY, G., ZHIYANOV, I.

Grain

Mechanization of the grain cleaning work., MTS, 12, no. 1, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, 2 Unclassified.

ZHMUYDA, V. B.

20042

USSR/Irrigation 4302.0300

Mar/Apr 1948

"The Kara-Kum Canal," V. B. Zhmuyda, 2 pp

"Geog v Shkole" No 2

Gives historical background of project from time of Peter I and subsequent efforts to complete it. Canal to extend from banks of Amu-Dar'ya River to Murgab River, a distance of 437 km, and later will be connected with Tedzhen River in Turkistan. Canal considered basis for developing animal husbandry, fishing industry, etc. of region. Canal will handle 13% of yearly flow of Amu-Dar'ya River and will triple water resources from all other rivers in Turkistan.

IB

20042

ZHMUYDA, V.B.

ALAMPIYEV, P.M., kandidat geograficheskikh nauk, dotsent; GRIGOR'YEV, A.L., kandidat ekonomicheskikh nauk; ZHMUYDA, V.B., kandidat ekonomicheskikh nauk, dotsent; LOYTER, M.N., kandidat tekhnicheskikh nauk; LYALIKOV, N.I., kandidat geograficheskikh nauk, dotsent; NIKITIN, N.P., professor; TUTYKHIN, B.A., kandidat geograficheskikh nauk, dotsent; CHERDANTSEV, Gleb Nikanorovich, doktor ekonomicheskikh nauk, professor; DZHAVAKHISHVILI, A.A., professor; GVELESIYANI, G.G., dotsent; GALKIN, P.D., redaktor; ROVIONOVA, I.A., redaktor; SAKHAROVA, N.V., tekhnicheskii redaktor.

[Economic geography of the U.S.S.R.; Soviet Socialist republics; Ukrainian, Moldavian, White Russian, Lithuanian, Latvian, Estonian, Karelo-Finnish, Georgian, Azerbaijan, Armenian, Kazakh, Uzbek, Kirghiz, Tajik, turkmen] Ekonomicheskaya geografiya SSSR; Sovetskie sotsialisticheskie Respubliki: Ukrainskaya, Moldavskaya, Belorusskaya, Litovskaya, Latvinskaya, Estonskaya, Karelo-Finskaya, Gruzinskaya, Azerbaidzhanskaya, Armianskaya, Kazakhskaya, Uzbekskaya, Kirgizskaya, Tadzhikskaya, Turkmenkaya. Moskva, Gos. uchebno-pedagog. izd-vo Ministerstva prosveshcheniya RSFSR, 1954. 426 p. [Microfilm] (MLRA 8:1)
(Geography, Economic)

ZHMUYDA, Viktor Borisovich LEBSEV, N.G., redaktor; GLNYKH, D.A.,
tekhnicheskiiy redaktor.

Ashkhabad, Moskva, Gos.izd-vo geogr.lit-ry 1957. 70 p.
(MLRA 10:6)

(Ashkhabad)

ZHMUYDA, VIKTOR BORISOVICH

2H.2
621.01
.76

Turkmenskaya SSR (By) V. B. Zhmuyd: I G. I. DMITRIYEVICH. Moskva, Gospolitizdat,
1957.
142 P. illus., Ports.

ZHMIYDA, V.

First results of the work of the All-Union Scientific Research
Institute of Agricultural Economics. Vop. ekon.no.2:157-159 F '58.
(Agriculture--Economic aspects) (MIRA 11:3)

1. ZHMYKHOV, I.
2. USSR (600)
4. China - Agriculture
7. Valleys of industrious people, Vokrug sveta, no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

1. ZHMYKHOV, I.
2. USSR (600)
4. Agriculture - China
7. Valleys of industrious people. Vokrug sveta no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

ANKAPAKSIY, Yu.A.; BAKASHEVA, L.I.; ZHMYKHOV, I.M.; VOYTENKO, Ye.S.;
BOSHCHENKOV, K.P.; ILYAKHIN, M.I.; KOROL'KOV, V.A.; KRAYNOV, P.A.;
LOBANOV, V.I.; MAMEDOV, A.; MARZBAN BAHK; RODIONOV, S.H.; FOSTOVSKIY,
S.H.; SAKOVICH, V.P.; PIMENOV, P.T.; ZHELEZNOVA, L.M., red.; ZABOROV,
M.A., red.; RAKOV, S.I., tekhn.red.

[History of the trade-union movement in foreign countries, 1939-1957]
Istoriia profdvizheniia za rubeshom; 1939-1957 gody. Izd-vo VTsSPS
Profizdat, No.3. 1958. 669 p. (MIRA 12:2)

1. Moscow. Moskovskaya vysshaya shkola profdvizheniya..2. Kafedra
istorii profsoyuznogo dvizheniya za rubeshom Moskovskoy vysshey
shkoly profdvizheniya (for all except Zheleznova, Zaborov, Rakov).
(Trade unions)

BERSHADSKAYA, Ol'ga Isaakovna; ZHMYKHOV, Ivan Nikolayevich; FILIPPOV,
A.N., red.; SHESTOVA, L.M., red.

[Workers' and national-liberation movement during the years
of the First World War] Rabochee i natsional'no-osvoboditel'noe
dvizhenie v gody pervoi mirovoi voyny. Moskva, Izd-vo VPSn i
408 pri TsK KPSS, 1959. 63 p. (MIRA 12:6)
(Labor and laboring classes)

ZHMYKHOV, V.M.

Basic problems in detailed economico-geographical regionali-
zation of Kursk Province. Sbor.nauch.rab.asp. VGU no.2:92-
101 '62. (MIRA 18:11)

ZHMYKOV, Ivan Nikolayevich; BERSHADSKAYA, G.I., red.; NAUMOV, K.M., tekhn.red.

[International labor and national-liberation movement during the Second World War]. Mezhdunarodnoe rabochee i natsional'no-osvoboditel'noe dvizhenie v period Vtoroi Mirovoi voyny. Moskva, Vysshaya partiinaya shkola pri TsK KPSS, 1958. 54 p. (MIRA 11:8)
(Labor and laboring classes)

ZEMKYHOV, Ivan Nikolayevich; KUNINA, V.E., redaktor; NAUMOV, K.M., tekhnicheskii redaktor

[Labor movement in England in 1918-1939] Rabochee dvizhenie Anglii v 1918-1939 godakh. Moskva, Vysshaia partiinaia shkola pri TsK KPSS, 1956. 44 p. (MIRA 10:4)
(Great Britain--Labor and laboring classes)

ZHMYKHOV, I.M.; KOROL'KOV, V.A.; KRAYNOV, P.A.; ZHELEZNOVA, L.M., redaktor;
RAKOV, S.I., tekhnicheskii redaktor

[History of the trade union movement in foreign countries; in the first stage of the general crisis of capitalism] Istorii prof-soiuznogo dvizheniia na rubezhom; na pervom etape obshchego krizisa kapitalizma. [Moskva] Izd-vo VTsSPS Profizdat. Pt. 2. 1955. 167 p.

(MLRA 9:10)

1. Moscow. Vysshaya shkola profdvizheniya.
(Trade unions)

ZEMYKHOVA, Anna; BORODIN, Ye., red.; GERSHANOV, Ye., red.;
GUR'YANOV, S., red.; KARZANOV, V., red.; IVANOV, Ye.,
red.; MAMSUROVA, L., red.; MEDVEDEV, A., red.; KADYROVA, Z.,
red.

[International Confederation of Free Trade Unions; academic
lectures on the "International labor and trade-union move-
ment"] Mezhdunarodnaia konfederatsiia svobodnykh profsoiu-
zov; uchebnye lektsii po distsipline "Mezhdunarodnoe rabo-
chee i profsoiuznoe dvizhenie. Moskva, Kursy profdvizhenia
dlia profaktivistov iz stran Azii, Afriki i Latinskoj
Ameriki, 1963. 51 p. (MIRA 17:9)

ZHMYKHOVA, I.

Prospects of change in the number and composition of the self-
employed population of the U.S. by 1975. Biul.nauch.inform.: trud
i zar.plata no.6:73-77 '59. (MIRA 12:9)
(United States--Labor and laboring classes)

LAZUTKIN, Ye.S.; RUSANOV, Ye.S.; EYDEL'MAN, R.A.; TRUBNIKOV, S.V.; KAPLAN,
I.I.; ZAGORODNIKOV, M.I.; GOL'TSOV, A.N.; TATARINOVA, N.I.; SONIN,
M.Ye.; SHISHKIN, N.I., doktor geogr.nauk; ANTOSENKOV, Ye.G.;
ZIMYKHOVA, I.I.; KOSYAKOV, P.O.; MATROZOVA, I.I.; ZELENSKIY, G.N.;
SEMENKOV, Ya.S.; ZALKIND, A.I., red.; RUSANOV, Ye.S., red.; SHTEYNER,
A.V., red.; MIKHAL'CHENKO, N.Z., red.; GERASIMOVA, Ye.S., tekhn. red.

[Manpower of the U.S.S.R.; problems in distribution and utilization]
Trudovye resursy SSSR; problemy raspredeleniya i ispol'zovaniya. Pod
red. N.I.Shishkina. Moskva, Izd-vo ekon.lit-ry, 1961. 243 p. (MIRA 14:12)

Moscow. Nauchno-issledovatel'skiy institut.
(Manpower)

PAVLOVA, Serafima Nikolayevna; DRIATSKAYA, Zoya Vasil'yevna; BARANOVA, Z.N.;
MKHOHIYAN, M.A.; ZHEMYKOVA, N.M.; ZAVNERSHINSKAYA, S.V.; RAGINA,
G.M., vedushchiy red.; YASHCHURZHINSKAYA, A.B., tekhn. red.

[Oils of eastern areas of the U.S.S.R.] Nefti vostochnykh raionov
SSSR; spravochnaia kniga. Pod red. S.N. Pavlovoi i Z.V. Driatskoi.
Leningrad, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-
ry, Leningr. otd-nie, 1958. 506 p. (MIRA 11:10)
(Petroleum)

DRIATSKAYA, Z.V.; ZHMYKHOVA, N.M.

Use of a double sorbent for determining the group hydrocarbon composition of kerosene-gas oil and oil fractions. Khim.i tekhn.topl.i masel 7 no.7:9-12 J1 '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gazov i polucheniyu iskusstvennogo zhidkogo topliva.
(Hydrocarbons) (Petroleum--Analysis)

ZHMYKHOVA, N.M.

PHASE I BOOK EXPLOITATION

SOV/6443

Pavlova, Serafima Nikolayevna, Zoya Vasil'yevna Driatskaya, Mariya Artemovna Mkhchiyan, Zoya Nikolayevna Baranova, Nataliya Mikhaylovna Zhmykhova, and Sof'ya Viktorovna Zavershinskaya

Nefti vostochnykh rayonov SSSR; spravochnaya kniga (Oil of the Eastern Regions of the U.S.S.R.; a Handbook) Moscow, Gostoptekhzdat, 1962. 607 p. Errata slip inserted. 2660 copies printed.

Eds. (Title page): S.N. Pavlova and Z.V. Driatskaya; Executive Ed.: K.F. Kleymentova; Tech. Ed.: A.S. Polosina.

PURPOSE: This handbook is intended for personnel of the petroleum-industry engaged in planning, designing, geological exploration, production, refining, and scientific research. It can also be used by teachers and students specializing in petrochemistry.

COVERAGE: This handbook complements the edition of 1958. It contains petroleum-research data for the period 1957-1961. The text describes crudes taken from new petroleum deposits in areas from the

Card 1/1

Oils of the Eastern Regions (Cont.)

SOV/6443

Volga region to Sakhalin. The following characteristics are given: physicochemical properties, elementary composition, fractional content from i.b.p. to 500°C, properties of commercial petroleum products or of their components, ash composition, and the hydrocarbon composition of dissolved gas. Fractionation curves, characteristics of individual fractions, and evaporation data are also given for most of the crudes. There are 16 references: 15 Soviet and 1 non-Soviet.

TABLE OF CONTENTS [Abridged]:

Introduction	15
Ch. I. Crudes of the Perm'Oblast	21
Ch. II. Crudes of the Udmurt ASSR	135
Ch. III. Crudes of the Bashkir ASSR	149

Card 2/A

PAVLOVA, Serafima Nikolayevna; DRIATSKAYA, Zoya Vasil'yevna; MKHCHYAN, Mariya Artemovna; BARANOVA, Zoya Nikolayevna; ZHMYKHOVA, Nataliya Mikhaylovna; ZAVERSHINSKAYA, Sof'ya Viktorovna; KLEYMENOVA, K.F., ved. red.; POLOSINA, A.S., tekhn. red.

[Petroleum in eastern regions of the USSR] Nefti vostochnykh raionov SSSR; spravochnaia kniga. Pod red. S.N.Pavlovoi i Z.V. Driatskoi. Moskva, Gostoptekhizdat, 1962. 607 p. (MIRA 15:12)
(Petroleum—Analysis)

ZHMYKHOVA, N. M.

21 May 51

USSR/Chemistry - Organosilicon Compounds,

"Direct Synthesis of Phenylbromosilanes," Acad A. V. Topchiev, N. S. Nametkin,
N. M. Zhmykhova, Moscow Petroleum Inst imeni I. M. Gubkin

"Dok Ak. Nauk SSSR" Vol LXXVIII, No 3, pp 497-500

Investigated conditions of synthesis by passing bromobenzene vapor over 60 g of Si
and 15 g of reduced Cu in catalytic furnace (cf. E. J. Rochow, "J Am Chem S" Vol
LXIII, 1945, p 963). Found best yield of phenyl bromosilanes is obtained at 410-420°.
By fractionation of reaction mixt, sepd following products and detd their proportion
at various temps of the reactions: SiBr_4 (crude), $\text{C}_6\text{H}_5\text{SiBr}_3$ (not yet described in
lit), $(\text{C}_6\text{H}_5)_2\text{SiBr}_2$, $(\text{C}_6\text{H}_5)_3\text{SiBr}$.

186T12

ZHMYKITOVA, N.M.

21(4)

PHASE I BOOK EXPLOITATION

SOV/1441

Pavlova, S.N., Z.V. Driatskaya, Z.N. Baranova, M.A. Mkhchiyan,
N.M. Zhmykhova, and S.V. Zavershinskaya.

Nefti vostochnykh rayonov SSSR; spravoch'naya kniga (Oils of Eastern
Regions of the USSR; a Handbook) Leningrad, Gostoptekhizdat,
1958. 506 p. 1,000 copies printed.

Sponsoring Agencies: USSR Gosudarstvennyy planovyy komitet,
Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva.

Eds.: Pavlova, S.N.; and Z.V. Driatskaya; Executive Ed.: Ragina,
G.M.; Tech. Ed.: Yashchurzhinskaya, A.B.

PURPOSE: This handbook is intended for petroleum production personnel,
refiners, scientific research organizations, as well as students

Card 1/22

Oils of Eastern Regions of the USSR (Cont.)

SOV/1441

and faculty members at petroleum vuzes.

COVERAGE: This book consists of two parts. The first part constitutes a card index listing the characteristics of crude oil found in eastern regions of the USSR, as well as of its end products. The second part is a continuation of the handbook published in 1947 under the title Soviet Crudes. It contains more data, however, and treats a much larger number of crudes. The card index shows the properties of crudes as well as the products obtained from them by straight-run distillation. Card format as well as the method of showing the characteristics of crudes and their products was adopted by the All-Union Scientific Research Institute of Petroleum Industry, and approved by the All-Union Council for the Study of Petroleum, Its Products, and Methods Used To Analyze Them. Earlier work done by Professor A.S. Velikovskiy, Candidates of Sciences S.N. Pavlova, P.S. Gopman, and Ye. F. Rudakova had been used in this book. P.N. Yenikev was consulted in matters dealing with petroleum geology. There are no references given.

Card 2/22

ZHMYREVA, I.A.; KOCHEMIROVSKIY, A.S.

Fluorescence of organic compounds in the adsorbed state.
Zhur. fiz. khim. 35 no.5:1163-1165 My '61. (MIRA 16:7)

(Organic compounds--Spectra) (Adsorption)

L 24287-66 EWT(1)/EWT(m)/EWP(j) RM

ACC NR: AP6007002

SOURCE CODE: UR/0051/66/020/002/0303/0307

AUTHOR: Zhmyreva, I. A.; Kolobkov, V. P.; Volkov, S. V.

ORG: none

2/

TITLE: Triplet-triplet absorption spectra of solid solutions of certain organic compounds

SOURCE: Optika i spektroskopiya, v. 20, no. 2, 1966, 303-307

TOPIC TAGS: absorption spectrum, solid solution, organic solvent, nonmetallic organic derivative, organic amide, fluorescence quenching, halogenated organic compound

ABSTRACT: To obtain more data on the mechanism and kinetics of formation of metastable states of organic molecules, the authors determined at low temperature the spectra of the triplet-triplet absorption of alcohol solutions of several amino-benzoic acids and anthracene derivatives, and investigated by means of triplet-triplet absorption the action of specific fluorescence quenchers on the population of the metastable state. The measurements were based on a comparison, at fixed wavelengths, of the transmission of samples under additional intense excitation capable of creating a sufficiently large population of the metastable states, with the transmission in the absence of excitation. The apparatus is described in detail. The triplet-triplet absorption method was also used to study the action of heavy halogens on the population of the metastable states. In the case of anthracene, a substantial increase in the triplet-triplet absorption density in the presence of bromides was observed.

Cord 1/2

UDC: 535.343

L 24287-66

ACC NR: AP6007002

covered. It was demonstrated by the same token that the quenching of fluorescence in anthracene derivatives by halides is governed by an enhancement of the transmission of excited molecules into the metastable state. The authors thank A. S. Cherkasov and V. I. Shirokov for supplying the substances and for valuable advice on questions of technique. Orig. art. has: 3 figures and 1 table.

SUB CODE: 20/ SUBM DATE: 30Dec64/ ORIG REF: 002/ OTH REF: 007

Card 2/2 FV

ACC NR: AP6030720

(A,N)

SOURCE CODE: UR/0368/66/005/002/0228/0235

AUTHOR: Zhmyreva, I. A.; Kolobkov, V. P.; Vaynberg, T. I.; Makhlina, G. A.

ORG: none

TITLE: Study of the luminescence of glass ¹⁶ activated by holmium

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 5, 1966, 228-235

TO-IC TAGS: luminescence, holmium, rare earth metal, glass, absorption band, energy band structure, radiation intensity, quantum generator

ABSTRACT: This study was made in order to obtain additional data on the mechanism of interaction of rare earth activators with glass inasmuch as such information might make it possible to utilize glass in the design of optic quantum generators. The absorption and luminescence characteristics of glass of various composition activated by holmium were studied in the $4300-30000\text{ cm}^{-1}$ range at room temperature as well as low temperature. A diagram of the energy levels and the transitions between them was drawn for the trivalent holmium ion in the glass on the basis of the position of the absorption and luminescence bands. The luminescence of holmium in the glass was concentrated predominantly in the 5000 cm^{-1} band (transition $5/7 \rightarrow 5/8$). Therefore, the effect of glass composition, activator concentration, and temperature on the form, position, intensity, and duration of the 5000 cm^{-1} was studied in detail. A level

Card 1/2

UDC: 666.11.01:535.34137

ACC NR: AP6030720

splitting diagram was drawn for holmium levels 5/7 and 5/8 in the glass on the basis of change of the 5000 cm^{-1} band structure with temperature. The experimental results show that 1) the intensity and duration of luminescence in the 5000 cm^{-1} band vary greatly in the different glass compositions, 2) the BS-14 alumocalcium glass compositions have the brightest luminescence and simultaneously the longest luminescence amounting to about 4×10^{-3} sec at Ho_2O_3 concentrations of 1% by weight, 3) the luminescence duration in the different glass compositions is not correlated with their luminescence intensity, 4) the quenching of luminescence in BS-14 glass compositions sets in at quite low Ho_2O_3 concentrations and substantially decreases the luminescence duration even at an increase of Ho_2O_3 concentration from 0.25 to 0.5, and 5) the temperature effect on the intensity and duration of luminescence in the various glass composition is relatively slight. The authors thank M. V. Yepifanov for his aid in the work with the ultra-traumeter and V. A. Sokolov and L. N. Gellin for measuring the intensity and duration of luminescence of some of the samples. Orig. art. has: 4 figures and 3 tables.

SUB CODE: 20,11/ SUBM DATE: 05Apr65/ ORIG REF: 003/ OTH REF: 007

65Hd2/2

BORGMAN, V.A.; ZHMYREVA, I.A.; ZELINSKIY, V.V.; KOLOBKOV, V.P.

Basic processes in the deactivation of excited states of complex organic molecules. Izv.AN SSSR.Ser.fiz. 24 no.5: 601-606 My '60. (MIRA 13:5)
(Molecules)

ZHMYREVA, I.A.; REZNIKOVA, I.I.

Effect of the size of the solute molecule on the susceptibility
of its electronic spectra to the action of the solvent. Opt. i
spektr. 10 no.2:281-284 F '61. (MIRA 14:2)
(Fluorescence) (Solution (Chemistry)—Spectra)

S/051/60/009/003/013/019/XX
E201/E191

AUTHORS: Viktorova, Ye.N., Zhmyreva, I.A., Kolobkov, V.P.,
and Saganenko, A.A.

TITLE: An Investigation of the Duration of Phosphorescence
in Solutions of Organic Compounds at -196 °C

PERIODICAL: Optika i spektroskopiya, 1960, Vol 9, No 3, pp 349-352

TEXT: The effect of various external and internal molecular factors on the probability (r) of transitions of excited molecules to a metastable state is related to the ratio (δ) of the quantum yields of phosphorescence and fluorescence at low temperatures (e.g. -180 or -196 °C). For long wavelength phosphorescence

$$\delta = \frac{r}{p} \cdot \frac{\pi}{\pi + q_2}$$

where p is the probability of a fluorescent transition, π is the probability of emission of radiation on transition from the metastable state to the ground state, and q_2 is the probability of quenching in the metastable state. The authors studied the duration of phosphorescence (τ_{phos}) in order to obtain information on quenching in the metastable state at -196 °C and to find to what

Card 1/3

S/051/60/009/003/013/019/XX

E201/E191

An Investigation of the Duration of Phosphorescence in Solutions of Organic Compounds at -196°C

extent a change of δ due to an external medium is reflected in the probability r . Tables 1 and 2 list the values of τ_{phos} ($\tau_{\delta\text{OC}}$) and δ at -196°C for 17 compounds in 21 solvents.

The compounds dealt with in Table 1 are:

- (I) 3-acetylamino-N-methylphthalimide,
- (II) 4-acetylamino-N-methylphthalimide,
- (III) 3,6-diacetylamino-N-methylphthalimide,
- (IV) 3-methylacetylamino-6-methylphthalimide.

The compounds listed in Table 2 are:

- (V) 3-methylacetylamino-N-methylphthalimide,
- (VI) 4-methylacetylamino-N-methylphthalimide,
- (VII) 3-hydroxy-N-methylphthalimide,
- (VIII) 4-hydroxy-N-methylphthalimide,
- (IX) 3-amino-6-nitro-N-methylphthalimide,
- (X) 3-dimethylamino-6-methylacetylamino-N-methylphthalimide,
- (XI) 3-dimethylamino-6-acetylamino-N-methylphthalimide,

Card 2/3

S/051/60/009/003/013/019/XX
E201/E191

An Investigation of the Duration of Phosphorescence in Solutions
of Organic Compounds at -196 °C

- (XII) 3-diphenylamino-N-methylphthalimide,
- (XIII) anthranilic acid,
- (XIV) paradimethylaminobenzoic acid,
- (XV) α -naphthol,
- (XVI) β -naphthol,
- (XVII) β -naphthylamine.

It was found that a change in the ratio δ was a fairly accurate measure of a change in the probability of transitions of excited molecules to metastable states when the surrounding medium was altered. Acknowledgements are made to B.Ya. Svesanikov and P.I. Kudryashov for loan of the apparatus used to measure the duration of phosphorescence.

There are 2 tables and 21 references: 16 Soviet and 5 English.

SUBMITTED: December 22, 1959

Card 3/3

S/051/60/008/03/027/038
E201/E191

AUTHORS: Zhmyreva, I.A., Zelinskiy, V.V., Kolobkov, V.P.,
Kochemirovskiy, A.S., and Reznikova, I.I.

TITLE: On the Problem of the Effect of Solvents on the Electronic
Spectra of Organic Molecules

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 3,
pp 412-414 (USSR)

ABSTRACT: Bakhshiyev (Refs 7, 8) derived relationships between the
effect of solvents on the electronic spectra of organic
compounds and the refractive indices and dielectric
constants of the solvents. According to Bakhshiyev the
experimental results fit excellently the formulae derived
by him. Unfortunately if one substitutes into Bakhshiyev's
formulae the values of A and $\Delta\nu_{\text{ex}}$ for a wider range
of solvents than those investigated by him, the experimental
and theoretical dependences no longer agree; such
disagreement can be seen clearly in Fig 1 which shows the
dependence of $\Delta\nu_{\text{ex}}$ on A for 4-aminophthalimide.
Here $\Delta\nu_{\text{ex}}$ is the frequency shift due to a solvent and

Card
1/2

S/051/60/008/03/027/038

E201/E191

On the Problem of the Effect of Solvents on the Electronic Spectra of Organic Molecules

$$A = \frac{2\varepsilon - 1}{2\varepsilon + 2} + p \frac{2n^2 - 1}{2n^2 + 2}$$

where ε is the dielectric constant and n is the refractive index of the solvent. Experimental data also disagree with a theoretically predicted inverse proportionality between the effect of solvents on the spectra and the molecular radii of the solvents (Fig 2). The authors follow earlier workers (Refs 9-13) and suggest that it is wrong in principle to attempt description of the effect of solvents on the spectra using macro-properties of these solvents, since such effect is primarily due to short-range intermolecular interactions governed by micro-properties of the solvents. A semblance of the relationship between the shift in the electronic frequencies and the dielectric constant is due to the fact that the dielectric constant is governed by the micro-properties of the solvents. There are 2 figures and 13 references, of which 6 are Soviet, 1 English, 2 Japanese and 4 German.

Card
2/2

SUBMITTED: August 12, 1959

AUTHORS: Borgman, V. A., Zhmyreva, I. A.,
Zelinskiy, V. V., Kolobkov, V. P.

S/020/60/131/04/018/073
B013/B907

TITLE: The Influence Exerted by Heavy Halogens on the Probability of
Transition to the Metastable State and the Probability of
Deactivation of This State

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol 131, Nr 4, pp 781-784 (USSR)

TEXT: The present paper is intended to show more clearly than was hitherto
done that the action of extinguishers of the halide type on the fluorescence of
organic compounds results in a higher probability (r) of transition of the
excited molecule to the metastable state and to show the influence exerted by
these extinguishers on the probabilities q_2 and κ respectively of transitions
from the metastable state to the ground state with and without emission.
Besides the salts of hydriodic acid, the authors used bromides as extinguishers.
 q_2 is less increased by weak bromide extinguishers. In order to obtain a higher
 q_{phosph} in some cases and clearer extinction in others, higher concentrations
of iodides were used. Table 1 contains the absolute yields q_{fluor} and q_{phosph}
of fluorescence and phosphorescence, as well as the rate of damping v^* of
fluorescence at certain concentrations of the salts of bromides and iodides in

Card 1/3

The Influence Exerted by Heavy Halogens on the
Probability of Transition to the Metastable State
and the Probability of Deactivation of This State

8/020/60/131/04/018/073
B013/B007

solutions of organic substances in methyl alcohol. The damping of phosphorescence was carried out by means of a device developed by B. Ya. Sveshnikov and P. I. Kudryashov, and short-time recordings were carried out by means of the τ -meter designed by N. A. Tolstoy and P. P. Feofilov. Different salts of one and the same halogen hydracid have the same effect: At the same molar concentration they have the same effect on the yield of fluorescence and the duration of phosphorescence. Next, the authors describe an attempt made to prove that there are no further complicating circumstances and errors in measurement. The use of bromides and higher concentrations of iodides made it possible to illustrate clearer cases of increase in q_{phosph} under the action of extinguishers.

Details are described. In all cases the duration of phosphorescence decreases considerably with increasing q_{phosph} . A qualitative comparison of the yield of luminescence and the duration of phosphorescence shows in some cases that also the presence of iodine in the solution increases κ considerably. Halogens have a particularly strong effect on κ if bromine and iodine are contained in the phosphorescent molecule. The deactivation of only 30 per cent of all adsorbing molecules falls to the portion of radiationless processes. Introduction of

Card 2/3

The Influence Exerted by Heavy Halogens on the
Probability of Transition to the Metastable State
and the Probability of Deactivation of This State

S/020/60/131/04/018/073
B013/B007

iodine into the molecule of the luminescent substance increases κ considerably. This holds also for 3-acetyl-N-methyl phthalimide. q_2 is usually smaller than κ . Introduction of iodine into the solution increases q_2 in most cases to such an extent that the extinction on the metastable level reduces not only $q_{rad.sum}$ but also q_{phosph} . When using a less active extinguisher - bromine and high concentrations of iodine - one obtains good examples for the increase of q_{phosph} and, consequently, of $q_{rad.sum}$ under the action of the extinguisher. The authors thank B. Ya. Sveshnikov, P. I. Kudryashov, V. A. Arkhangel'skaya, and T. K. Razumova for having put the necessary instruments at their disposal and for their valuable help. There are 1 table and 8 references, 2 of which are Soviet.

PRESENTED: October 26, 1959, by A. A. Lebedev, Academician

SUBMITTED: October 7, 1959

Card 3/3

8/051/60/008/03/027/038

E201/E191

AUTHORS: Zhmyreva, I.A., Zelinskiy, V.V., Kolobkov, V.P.,
Kochemirovskiy, A.E., and Reznikova, I.I.

TITLE: On the Problem of the Effect of Solvents on the Electronic
Spectra of Organic Molecules

PERIODICAL: Optika i spektroskopiya, 1960, Vol 8, Nr 3,
pp 412-414 (USSR)

ABSTRACT: Bakhshiyev (Refs 7, 8) derived relationships between the effect of solvents on the electronic spectra of organic compounds and the refractive indices and dielectric constants of the solvents. According to Bakhshiyev the experimental results fit excellently the formulae derived by him. Unfortunately if one substitutes into Bakhshiyev's formulae the values of A and $\Delta\nu_{\text{ex}}$ for a wider range of solvents than those investigated by him, the experimental and theoretical dependences no longer agree; such disagreement can be seen clearly in Fig 1 which shows the dependence of $\Delta\nu_{\text{ex}}$ on A for 4-aminophthalimide. Here $\Delta\nu_{\text{ex}}$ is the frequency shift due to a solvent and

Card
1/2

S/051/60/008/03/027/038

E201/E191

On the Problem of the Effect of Solvents on the Electronic Spectra of Organic Molecules

$$A = \frac{2\varepsilon - 1}{2\varepsilon + 2} + p \frac{2n^2 - 1}{2n^2 + 2}$$

where ε is the dielectric constant and n is the refractive index of the solvent. Experimental data also disagree with a theoretically predicted inverse proportionality between the effect of solvents on the spectra and the molecular radii of the solvents (Fig 2). The authors follow earlier workers (Refs 9-13) and suggest that it is wrong in principle to attempt description of the effect of solvents on the spectra using macro-properties of these solvents, since such effect is primarily due to short-range intermolecular interactions governed by micro-properties of the solvents. A semblance of the relationship between the shift in the electronic frequencies and the dielectric constant is due to the fact that the dielectric constant is governed by the micro-properties of the solvents. There are 2 figures and 13 references, of which 6 are Soviet, 1 English, 2 Japanese and 4 German.

Card
2/2

SUBMITTED: August 12, 1959

5.3100

~~5(4)~~, ~~5(3)~~

AUTHORS:

Zhmyreva, I. A., Zelinskiy, V. V., Kolobkov, V. P.,
Krasnitskaya, N. D.

67925

SOV/20-129-5-35/64

TITLE:

A Universal Scale of the Effect of Solvents on the Electron
Spectra of Organic Compounds

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 5, pp 1089-1092
(USSR)

ABSTRACT:

The authors give a short survey on the publications dealing with this subject and mention the papers by A. I. Kipriyanov (Ref 1), V. V. Zelinskiy, V. P. Kolobkov and L. G. Pikulik (Ref 2), V. V. Zelinskiy, V. P. Kolobkov and I. I. Reznikova (Ref 5). They suggest 4-amino-N-methyl-phthalimide as standard substance by means of which they construct the scale mentioned in the title. If the fluorescence spectra frequencies are plotted on the ordinate and the various solvents on the abscissa (at distances which correspond to the differences between the standard substance) the frequencies of the maxima of the fluorescence spectra of most of the organic substances for a certain solvent are on a straight line. Figure 1 shows such diagrams for some phthalimide derivatives. In the absorption

Card 1/3

67925

SOV/20-129-5-35/64

A Universal Scale of the Effect of Solvents on the Electron Spectra of Organic Compounds

spectra the points are on a curve. The reason for the different effect of the solvent on the fluorescence- and absorption spectrum will be dealt with by the authors at another place. Figure 2 shows the position of the maxima of the fluorescence spectra in different solvents for o-methoxybenzoic acid, aminonaphthaminophenazine and its derivatives, malimide derivatives, acridine and 2-aminoacridine. The authors set up a scale for 79 solvents in which zero is the position of the spectrum of 4-amino-N-methyl-phthalimide vapor, 100 - the position of the spectrum of this substance in water (Table 1). Certain rules governing the order of the solvents on this scale are found: the maxima ν_{fl}^{max} of the fluorescence spectra are in all solvents containing hydroxyl groups between 16000 and 19000 cm^{-1} where the alcohols form a subgroup between 17600 and 19600 cm^{-1} . For the esters ν_{fl}^{max} is between 18800 and 21600 cm^{-1} , for ether between 21700 and 22050 cm^{-1} , for aromatic hydrocarbons between

Card 2/3

67925
SOV/20-129-5-35/64
A Universal Scale of the Effect of Solvents on the Electron Spectra of Organic Compounds

22000 and 22500 cm^{-1} , and for saturated aliphatic hydrocarbons $\sqrt{\nu_{\text{max}}}$ is 24400 cm^{-1} . Differences in the state of aggregation do not influence the position of the spectrum, which was proved with menthene, stearic acid, solid and liquid diethyl oxalate. There are 2 figures, 1 table, and 7 references, 3 of which are Soviet.

PRESENTED: July 15, 1959, by A. N. Terenin, Academician

SUBMITTED: July 6, 1959

Card 3/3

ZHMYREVA, N.A.; ZELINSKIY, V.V.; KOLOBKOV, V.P.; KOCHEMIROVSKIY, A.S.;
REZNIKOVA, I.I.

Current status of the problem of the effect of the solvent
on the spectra of complex organic molecules. Izv.AN SSSR.Ser.
fiz. 24 no.5:596-600 My '60. (MIRA 13:5)
(Spectrum, Molecular)

L 00580-67 EWT(1)

ACC NR: AP6029004

SOURCE CODE: UR/0431/66/001/002/0127/0130

AUTHOR: Asatiani, T. L.; Gazaryan, K. A.; Zimiyrov, V. N.; Ivanov, V. A.; Matevosyan, E. M.; Nazaryan, A. A.; Filozov, A. F.; Sharkhatunyan, R. O.

ORG: Institute of Physics GKAE (Institut fiziki GKAE)

TITLE: On the possibility for measuring ionization of charged particles in a streamer chamber

SOURCE: AN ArmSSR. Izvestiya, Fizika, v. 1, no. 2, 1966, 127-130

TOPIC TAGS: ionization chamber, particle track, charged particle, neon, proton beam

ABSTRACT: Data are given from experiments conducted to determine the possibility of measuring the specific ionization of charged particles in a streamer chamber. The LYAP synchrocyclotron at OIYAI was used for passing protons with energies of 660, 200, 100 and 50 Mev through a streamer chamber measuring 50x35x15 cm filled with pure neon to a pressure of 1 atm. The results show 1.8 ± 0.4 luminescent centers per cm of the proton track with a root-mean-square deviation of 0.29 mm from the approximating straight line. Microphotometric analysis of the films shows that the proposed method may be used for measuring the ionization of charged particles. In conclusion the authors thank Corresponding member AN SSSR A. I. Alikhanyan and Doctor of physical and mathematical sciences A. A. Tyapkin for cooperation and interest in the work. The authors are especially grateful to Candidate of physical and mathematical sciences

Card 1/2

L 06586-67

ACC NR: AP6029004

3.
A. F. Pisarev for assistance in carrying out the experiment and for useful discussions and also to V. N. Prokhorov for direct assistance with the measurements and to Yu. A. Zanevskiy for cooperation in the work. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 05Sep65/ ORIG REF: 002/ OTH REF: 002

Card 2/2

ZHOCHKIN, N., inzh.

Methods for increasing the service life of lamps on diesel locomotives. Elek. i tepl. tiaga 5 no.6:17 Js '61. (MIRA 14:10)
(Diesel locomotives--Electric equipment)

ZHODOS, A. M.

23374 Primeneniye Apparatov Protivozebristosti Dlya Uluchsheniya Kottonnykh Chulok
Legkaya Prom-st', 1949, No. 6, c. 18-20.

SO: LETOPIS NO. 31, 1949

ZHODZISHSKIY, I.I., kand.tekhn.nauk; KRASNOVSKIY, R.O., kand.tekhn.nauk;
LUK'YANCHUK, P.M., inzh.; KURITS, F.K., inzh.

Roofing for industrial buildings from gas-ash silicate.
Prom.stroi. 43 no.12:33-35 '65.

(MIRA 18:12)

ZHODZISHSKIY, I.I., kand. tekhn. nauk; VERKHOVSKIY, V.S., inzh.

Temperature deformations of heated panels for coverings of
industrial buildings. Prom, stroi, 41 no.1:33-37 Ja '64.
(MIRA 17:6)

ZHODZINSKIY, I.G., kand. tekhn. nauk

Precast and precast monolithic roofs made of heat-insulated
combined slabs. Prom. stroi. 39 no. 2:21-25 '61. (NIMA 1/2)
(Insulation (Heat)) (Roofing, Concrete)

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 11, p 171 (USSR)

SOV/124-58-11-13058

AUTHOR: Zhodzishskiy, G. A.

TITLE: The Effect of Nonuniform Heating on the Frequency of Natural Oscillations of Saw Disks of Constant Thickness (Vliyaniye neravnomernogo nagreva na chastoty sobstvennykh kolebaniy pil'nykh diskov postoyannoy tolshchiny)

PERIODICAL: Tr. Leningr. lesotekhnich. akad., 1957, Nr 82, part 2, pp 149-164

ABSTRACT: The frequency of natural transverse oscillations in a saw disk of constant thickness is investigated by the Bubnov-Galerkin method. The disk, with a rigidly attached arbor-hole contour and a stress-free outer periphery, is subjected to nonuniform axisymmetric heating. The differential equation of the problem consists of an equation of the free transverse oscillations in a circular plate of constant thickness subjected to the action tensile stresses (produced by nonuniform heating) symmetrically distributed over its middle surface. The approximate flexure expression is taken in the form

Card 1/3

$$w = a_0(r-a)^2 \left(1 + \frac{B_1}{b} r + \frac{B_2}{b^2} r^2 \right) \sin(k\theta + \theta_0) \sin(\omega t + \alpha_0)$$

SOV/124-58-11-13058

The Effect of Nonuniform Heating on the Frequency of Natural Oscillations (cont.)

where r and θ are the polar coordinates; a and b , the arbor-hole and outer radii of the disk; k , the number of node diameters; ω , the angular frequency of oscillation; α_0 and θ_0 , constants determined from the initial conditions; B_1 and B_2 , constants determined from the boundary conditions on the external circumference of the disk (the boundary conditions on the internal arbor-hole circumference are satisfied automatically); a_0 is an arbitrary constant. The distribution of temperature along a radius is assumed to follow a power law. All integrals entering in the formula for computation of natural frequencies are given. The instance when $k=0$ in the case of a uniformly heated disk is compared with the known exact solution (expressed in Bessel functions) of the problem of the natural oscillations of a circular plate of constant thickness. In the computational example given, the frequency of the natural oscillations of a saw disk is determined for k values of 0, 1, ..., 6, as well as for the temperature differences between the outer and inner circumferences equivalent to 0, 15, 30, 45, and 90°C. Also determined are the "critical" temperatures corresponding to zero frequencies in different forms of oscillations and coinciding with the failure of plane disks. It is pointed out that, since at $k=0$ and $k=1$ the frequencies of a uniformly heated disk increase, the disk cannot fail (the critical temperature is negative); at $k>1$, the frequencies of the disk diminish and "critical" temperatures exist.

Card 2/3

SOV/124-58-11-13058

The Effect of Nonuniform Heating on the Frequency of Natural Oscillations (cont.)

It should be noted that the expression chosen for flexure is only suitable for the determination of the lowest frequency for every given value of k ; no investigations are included on the frequencies of the higher modes of oscillations in disks with several nodal circumferences.

A. D. Kovalenko

Card 3/3

ZHODZ-ISHSKIY, G.A., kand. tekhn. nauk; YUZEFOVICH, G.I., kand. tekhn.
nauk

Using computers in the forest and woodworking industries.
Der. prom. 12 no.12:9-12 D '63. (MIRA 17:3)

1. Lesotekhnicheskaya akademiya im. S.M. Kirova.

ZHODZISHSKIY, G.A., kand.tekhn.nauk; NEMANOV, V.S., kand.tekhn.nauk

Electronic device for automatic log scaling. Mekh.i avtom.proizv.
18 no.3:30-32 Mr '64. (MIRA 17:4)

ZHODZISHSKIY, G. A.: Master Tech Sci (diss) -- "The effect of stresses from uneven heating, forging, and centrifugal forces of inertia on the frequency of the free oscillations of circular saws". Leningrad, 1958. 20 pp (Min Higher Educ USSR, Leningrad Order of Lenin Forestry Engineering Acad im S. M. Kirov), 150 copies (KL, No 6, 1959, 133)

ZHODZISHSKIY, G.A.

Effect of initial stresses from peening and from uneven heating
on the frequency of free oscillations in rotating circular saws.
Trudy LTA no.83:237-253 '59. (MIRA 13:4)
(Saws)

ZHODZISHSKIY, G.A.

Effect of unequal heat distribution in circular saws of even width
on the frequency of proper oscillations. Trudy Len. lessotekh. akad.
no.82 pt 2:149-164 '57.. (MIRA 11:9)
(Saws) (Heat)

ZHODZISHSKIY, I., kand. tekhn. nauk; TARASENKO, P., inzh.; BRAUNSDORFER, I.,
inzh.; ZAYTSEV, V., inzh.

Condition of the structural elements in an experimental apartment
house made of monolithic three-dimensional elements. Zhil. stroi.
no.11:6-9 '64 (MIRA 18:2)

ZHOZISHSKIY, I., kand.tekhn.nauk.

Using lightweight concrete slabs in laying garret floors. Gor. i
sel'.stroi. no.12:12-14 D '57. (MIRA 11:2)
(Attics) (Lightweight concrete)

ZHODZISHSKIY, I. D.

"Practical Methods for Calculation of Certain Combined Space Systems." Thesis for degree of Cand. Technical Sci. Sub 14 Feb 50, Moscow Order of Labor Red Banner Engineering Construction Inst imeni V. V. Kuybyshev

Summary 71, 4 Sep 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1950. From Vechernyaya Moskva, Jan-Dec 1950.

ZHODZISHSKIY, I.I., kand.tekhn.nauk

KAP panel with a width of 3 m. Biul.stroi.tekh.14 no.7:11-13
Jl '57. (MIRA 10:11)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta po pererabotke slantaev.
(Concrete slabs)

ZHODZISHSKIY, I.L., kand.tekhn.nauk; ZOLOTUKHIN, V.G., inzh.

Flexures of foamed reinforced concrete slabs and ways to
loosen them. Trudy III prom. zdan. i soor. no.3:81-105 '60.
(MIRA 15:1)
(Lightweight concrete)

RATC, E.G. [Ratts, E.G.], k.n.t. (Moskwa); ZODZISZSKIJ, I.L.Z.,
[Zhodzishskiy, I.L.] k.n.t. (Moskwa); TABAKOW, W.F. [Tabakov, V.F.]
inz. (Moskwa); LENKIEWICZ, Wl., dr inz. [translator]

Apartment buildings constructed from spatial elements completely
prefabricated. Inz i bud 19 no.2:41-50 F '62.

ZHODZISHSKIY, I. L., kand. tekhn. nauk; LIZAREV, A. D., inzh.

Girders made of reinforced fly-ash concrete slabs. Trudy
NIIZHB no. 8:224-228 '59. (MIRA 13:4)

1. Sverdlovskiy filial Vsesoyuznogo nauchno-issledovatel'skogo
instituta promyshlennykh sooruzheniy.
(Girders) (Lightweight concrete)

ZHODZISHKIY, I.L., kand.tekhn.nauk; LIZAREV, A.D., inzh.

Three-dimensional aspects of the performance of slab-girder roofs.
Prom. zdan. no.1:61-67 '59. (MIRA 13:8)
(Roofs, Concrete)

ZHODZISHSKIY, I. I., kand. tekhn. nauk

Combined foamed and reinforced concrete construction elements
and the testing of mechanical properties of foamed concretes.
Trudy NIIZHB no. 8:83-97 '59. (MIRA 13:4)

1. Sverdlovskiy federal'nyi Vsesoyuznogo nauchno-issledovatel'skogo
instituta promyshlennykh sooruzheniy.
(Lightweight concrete--Testing)

15(6)

AUTHOR:

Zhodzishskiy, I.L., and Zolotukhin, V.G.

SOV/115-59-9-8/37

TITLE:

The Determination of Bends in Construction Elements During Field and Factory Testing

PERIODICAL:

Izmeritel'naya tekhnika, 1959, Nr 9, pp 19-20 (USSR)

ABSTRACT:

The authors of this article designed a device for measuring vertical displacements for factory and field tests of prefabricated concrete parts. The instrument, shown in Fig 1, is based on a micrometer of conventional design, which was converted for this purpose. Measuring pins are installed in the concrete part as shown in Fig 1. There are 2 diagrams.

Card 1/1

ZHODZISHSKIY, I.L., kand. tekhn. nauk

Improving the construction and expanding the use of large-panel
reinforced lightweight concrete slabs. Prom. stroi. 36 no.11:21-25
N '58. (MIRA 12:1)

(Concrete slabs)

ZHODZISHSKIY, I. L., kand. tekhn. nauk

Various equipment for laboratories of porous materials plants.
Stroi. mat. 5 no.5:33-35 My '59. (MIRA 12:8)
(Autoclaves) (Testing-machines)

ZHODZISHSKIY, I.L.

LEVIN, S.S., inzhener; ZHODZISHSKIY, I.L., kandidat tekhnicheskikh nauk.

Mechanical treatment of the surfaces of large panels made of
porous concretes. Stroitel'stvo mashinostroyeniya, no. 12:24-26 D '56.
(Concrete slabs) (MLRA 10:1)

ZHODZISHSKIY, I.L., kandidat tekhnicheskikh nauk.

~~Planning and operating large autoclaves. Stroil.prom. 35 no.4:30-~~
36 Ap '57. (MLRA 10:3)
(Autoclaves)

LEVIN, S.S., inzhener: ZHODZISHSKIY, I.L., kandidat tekhnicheskikh nauk,

Using machinery for finishing surfaces of cellular concrete panels.
Stroi. prom. 35 no.4:40-41 Ap '57. (MLRA 10:3)
(Building blocks) (Lightweight concrete)

KOVALENKO, A.F., inzhener; ZHODZISHSKIY, I.L., inzhener.

Precast concrete foundations and basement walls for apartment and public buildings. Stroil. prom. 33 no.9:23-27 S '55. (MIRA 9:1)
(Foundations) (Precast concrete construction)

ZHODZISHSKIY, I. L., kandidat tekhnicheskikh nauk; SHINDNES, M. M.,
inzhener.

Roofs made of slabs and girders. Bet. i zhel. -bet. no.8:
296-300 Ag '56. (MLRA 9:10)

(Roofs) (Concrete slabs)

ZHC52ISHSKIY, I. I.

Concrete Construction

Complex shell-rock concrete constructions. Stroi. prom., 30, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress
November 1952. UNCLASSIFIED.

Reel #804

Zhigalin, V.

to Zhodzishskiy, I. L.

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